SPERM PROTEIN 17 FOR THE DIAGNOSIS AND TREATMENT OF CANCER

ABSTRACT OF THE DISCLOSURE

- The results herein identify Sp17 as a novel cancertestis antigen in multiple myeloma. Sp17 recombinant protein was generated from E. coli. A CD8 predominant CTL line was generated that was able to lyse autologous targets in a Sp17-dependent HLA class I-restricted manner,
- 10 using dendritic cells as the antigen-presenting cells and DOTAP to deliver the Sp17 protein to the dendritic cells. A combination of HLA-matched and mismatched antibodyenriched fresh myeloma tumor cells and myeloma cell lines were used as targets for the recombinant protein-
- 15 propagated CTL. The findings of target cell lysis suggest that the Sp17 protein produced by Sp17 tumor cells are processed and presented in vivo and that the CTL epitopes are presented in association with HLA class I molecules in a concentration and configuration recognized by
- 20 recombinant protein-propagated CTL.